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UI - 10471807
AU - Kajita M
AU - Kinoh H
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AU - Takamura A
AU - Itoh Y
AU - Okada A
AU - Sato H
AU - Seiki M
TI - Human membrane type-4 matrix metalloproteinase (MT4-MMP) is encoded by a novel major transcript: isolation of complementary DNA clones for human and mouse mt4-mmp transcripts.
LA - Eng
MH - Amino Acid Sequence
MH - Animal
MH - Blotting, Western
MH - Breast Neoplasms/enzymology/genetics
MH - Carcinoma/enzymology/genetics
MH - COS Cells
MH - DNA Primers
MH - DNA, Complementary/*isolation & purification
MH - Gene Amplification/methods
MH - Human
MH - Metalloendopeptidases/*genetics/immunology/metabolism
MH - Mice
MH - Molecular Sequence Data
MH - Reverse Transcriptase Polymerase Chain Reaction
MH - Support, Non-U.S. Gov't
MH - Transcription, Genetic
MH - Translation, Genetic
MH - Tumor Cells, Cultured
RN - EC 3.4.24 (Metalloendopeptidases)
RN - EC 3.4.24.- (membrane-type 4 matrix metalloproteinase)
RN - O (DNA Primers)
RN - O (DNA, Complementary)
PT - JOURNAL ARTICLE
DA - 19991012
DP - 1999 Sep 3
IS - 0014-5793
TA - FEBS Lett
PG - 353-6
SB - M
SB - X
CY - NETHERLANDS
IP - 3
VI - 457
JC - EUH
AA - Author
EM - 199912
AB - Five distinct membrane-type matrix metalloproteinases (MT-MMP) have been reported by cDNA cloning. However, the mt4-mmp gene product (MMP-17) has not been identified yet in spite of the cDNA isolation [Puente et al. (1996), Cancer Res. 56, 944-949]. In this study, we re-examined the transcripts for human mt4-mmp by 5' RACE and identified two types of transcripts. The minor one corresponded to the cDNA reported by Puente et al. and failed to express protein, and the other is the major transcript that has an extended open reading frame and expressed 67 and 71 kDa translation products. Thus, functional mt4-mmp has been identified for the first time.
AD - Department of Cancer Cell Research, Institute of Medical Science, The University of Tokyo, 4-6-1, Shirokanedai, Minato-ku, Tokyo, Japan.
PMID - 10471807
CU - 1999
SI - GENBANK/AB021224
PID - S0014579399010650
EDAT - 1999/09/03 09:00
MHDA - 1999/09/03 09:00

S0 - FEBS Lett 1999 Sep 3;457(3):353-6

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